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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/780,213	02/17/2004	Yoshihisa Takatsu	JP920020219US1	9485
H. Daniel Schnurmann Intellectual Property Law IBM Corporation, Dept. 18G Building 300-482 2070 Route 52 Hopewell Junction, NY 12533			EXAMINER	
			PHAN, MAN U	
			ART UNIT	PAPER NUMBER
			2619	
			NAME OF THE OWNER.	DELIVERY MODE
			MAIL DATE	
			12/11/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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	Application No.	Applicant(s)			
supplemental	10/780,213	TAKATSU ET AL.			
Notice of Allowability	Examiner	Art Unit			
	Man Phan	2619			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.					
1. This communication is responsive to <u>communications filed 8/22/2007</u> .					
2. The allowed claim(s) is/are <u>1-18, 22 (claims renumbered as 1-1-19 respectively)</u> .					
3.					
Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	5. ☐ Notice of Informal F 6. ☐ Interview Summary Paper No./Mail Da 7. ☒ Examiner's Amendr 8. ☒ Examiner's Stateme 9. ☐ Other	(PTO-413), te			

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Reasons for allowance

1. This communication is in response to applicant's 08/22/2007 amendment in the application of Takatsu et al. for the "Communication control apparatus and method for searching an Internet Protocol address" filed 02/17/2004. This application claims foreign priority based on the application 2003/121263 filed April 25, 2003 in Japan. The proposed amendment has been entered and made of record. Claim 1, 2, 8-10, 16-18, 22 have been amended. The claims have been amended to better point out and more distinctly claim subject matter comprising the invention.

- 2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee. Authorization for this examiner's amendment was given in a telephone interview with Mr. H. Daniel Schnurmann (Agent Reg. #35791) on Dec. 04, 2007.
- 3. The application has been amended as follows:

IN THE CLAIMS:

I. Claim 19:

Cancel

Claim 20:

Cancel

Claim 21:

Cancel

4. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue

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fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for

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Allowance."

5. Claims 1-18, 22 are allowable as evident by applicant's amendment (Claims are renumbered as 1-19 respectively).

6. The following is an examiner's statement of reasons for allowance: The prior art of record fails to disclose or suggest a communication control apparatus, comprising: a storage device for storing search information to determine a subsequent transfer route for a packet

received by way of its destination address; and a route search device to search for a transfer route

for said packet received based on said search information, wherein said search information is

associated with a tree structure, each node in said tree structure having at least one entry, a mask

prefix associated with said at least one entry, wherein each entry includes information on the

number of bits of said mask prefix associated therewith, and a sort key, and wherein the number

of bits of said sort key is set to be greater than or equal to the longest mask length amongst the

mask lengths of all said mask prefixes; a bit string divided into an upper side bit string field and

a lower side bit string field, wherein the upper side bit string field of each of said sort keys is to

match said mask prefix associated with an entry having said sort key wherein entries are

assigned to predetermined nodes of said tree structure based on the sort order of their sort keys;

each node having an entry list in which multiple entries included therein are sorted based on their

sort keys; and each node except leaf nodes are linked via each branch to relate each entry in the

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entry list of said node to each node at the next lower hierarchy, as specifically recited in the claims.

7. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Man U. Phan whose telephone number is (571) 272-3149. The examiner can normally be reached Monday through Friday from 6:00 am to 3:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jay Patel, can be reached on (571) 272-2988. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (571) 272-2600.

9. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about

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the PAIR system, see http://pair-direct.uspto.gov. Should you have any questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at toll free 1-866-217-9197.

Mphan.

Dec. 05, 2007

MAN U. PHAN PRIMARY EXAMINER